

LUMATEK

PROFESSIONAL LIGHTING

ZEUS 1000W PRO



The Zeus 1000W Pro is a very high performance full-cycle LED solution for commercial and hobby horticulture cultivation, with the power and flexibility to scale from vegetative growth to higher light intensities in bloom. Designed for 2.0×1.5m coverage.

up to 2.9 $\mu\text{mol}/\text{J}$

2925 $\mu\text{mol}/\text{s}$ total output

Full-Spectrum



ZEUS 1000W PRO

PRODUCT CODE LUMLED009

EFFICACY up to 2.9 $\mu\text{mol}/\text{J}$

PPF 2925 $\mu\text{mol}/\text{s}$

INPUT VOLTAGE 220-240V, 50-60Hz

DRIVER 2 x 500W Drivers incorporated on the frame

INPUT POWER 1025W ($\pm 5\%$)

FOOTPRINT 2.0x1.5m

APPLICATION Multi-layer, Room, Tent

WATERPROOF & DUSTPROOF IP65

LIFETIME (LED BARS) 60 000 hrs

LIGHT DISTRIBUTION 120°

LIGHT SOURCE 4000K White Diodes Lumileds 3030 HE Plus;
660nm Red Diodes Osram SQ3.24

CTT 3800K

QUANTITY OF LED BARS 10

QUANTITY OF DIODES TOTAL White 2880; Red 240

QUANTITY OF DIODES PER LED BAR White 280; Red 24

DIODES POWER PROPORTION White 82%, Red 18%

DIODES EFFICIENCY White Lumileds 3030 HE Plus 2.9 $\mu\text{mol}/\text{J}$;
Red Osram SQ3.24 3.8 $\mu\text{mol}/\text{J}$

DIMMABLE OFF-25%-50%-75%-100%
with 0-10V Light Dimmer (Included)

EXTERNAL CONTROL With Lumatek Digital Panel Plus 2.0
or Universal Controller 0-10V

WEIGHT 17.5 Kg

DIMENSIONS 1700 x 1099.6 x 48.2mm

SPECTRUM Full Spectrum F

THERMAL MANAGEMENT Passive Cooling

POWER FACTOR 0.95

MAX. AMBIENT TEMPERATURE (@1000W POWER) 25°C

BTU (WITH DRIVER ATTACHED) 3497 BTUs/h

BTU (WITHOUT DRIVER) 3180 BTUs/h

WARRANTY 5 Years

CERTIFICATIONS IP65, Rohs Directive 2011/65/EU And (EU)2015/863)

LED Fixture: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE EMC Standard: EN 55015:2019, EN 61547:2009, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019

LED Driver: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE EMC Standard: EN 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

N 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

INPUT CURRENT (A/W) PER DIMMING RANGE

@ 277V

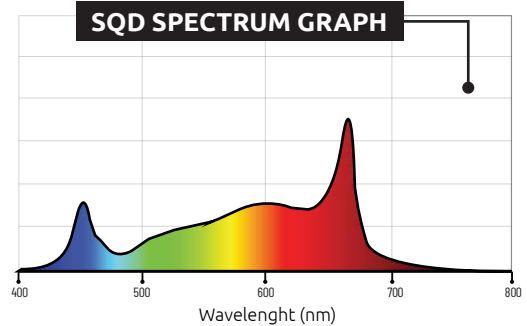
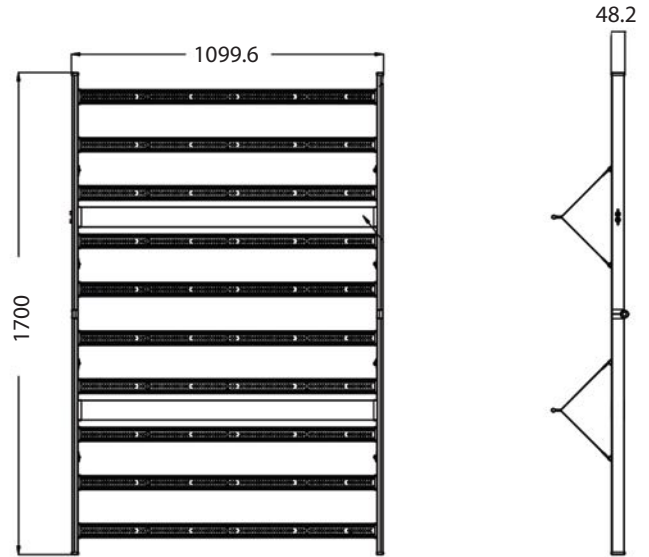
| DIMMING | INPUT POWER (W) | INPUT CURRENT (A) |
|---------|-----------------|-------------------|
| 100% | 1075 | 3.99 |
| 75% | 818 | 3.08 |
| 50% | 530 | 2.1 |
| 25% | 268 | 1.26 |

@ 240V

| DIMMING | INPUT POWER (W) | INPUT CURRENT (A) |
|---------|-----------------|-------------------|
| 100% | 1075 | 4.56 |
| 75% | 820 | 3.51 |
| 50% | 530 | 2.33 |
| 25% | 267 | 1.33 |

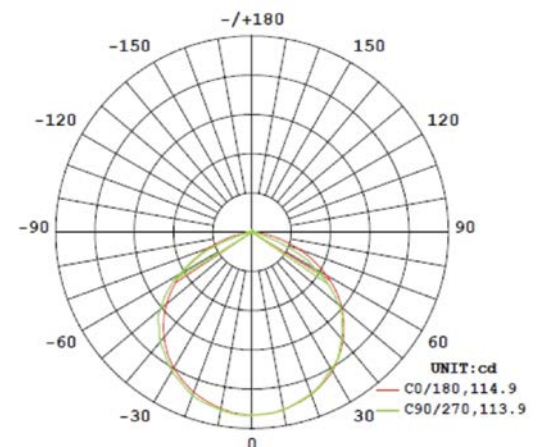
@ 230V

| DIMMING | INPUT POWER (W) | INPUT CURRENT (A) |
|---------|-----------------|-------------------|
| 100% | 1075 | 4.76 |
| 75% | 821 | 3.66 |
| 50% | 530 | 2.41 |
| 25% | 268 | 1.36 |



DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 114.4 DEG



EXTERNAL CONTROL

The Zeus fixture can also be externally controlled with a Lumatek digital lighting controller (Digital Panel Plus 2.0) featuring light timing, automated dimming (1% increments), temperature safety control, Sunrise & Sunset Mode for up to 100 fixtures per controller



ITEMS INCLUDED IN THE BOX:

- 10 x Lumatek 100W Pro 2.9 Full-Spectrum Magnet Light Bars
- 1 x Foldable Frame Structure with 2 x 500W Pro Incorporated Drivers + Connecting cables
- 2 x Metal Plates Fixed in structure to ensure fixture balances
- 1 x 0-10V Light Dimmer + Velcro
- 4 x Metal Cable Hangers
- 1 x Manual

PPFD: PHOTOSYNTHETIC PHOTON FLUX DENSITY ($\mu\text{mol}/\text{m}^2/\text{s}$)

FACTORS THAT CAN INFLUENCE PPFD TESTS

- TEST EQUIPMENT.
- LAMP BEADS DEVIATION
- AMBIENT TEMPERATURE DEVIATION
- PC COVER TRANSMITTANCE DEVIATION
- POWER SOURCE EFFICIENCY DEVIATION
- REFLECTION CONSIDERED OR NOT

RECOMMENDED PPFD ($\mu\text{mol}/\text{m}^2/\text{s}$)

| PLANT | SEED | CLONES | VEGETATIVE | FLOWERING |
|-----------|---------|--------|------------|-----------|
| CANNABIS | 100-300 | 75-150 | 300-550 | 650+ |
| TOMATOES | 150-350 | 75-150 | 350-550 | 650+ |
| CUCUMBERS | 100-300 | -- | 300-550 | 650+ |
| PEPPERS | 150-350 | -- | 300-550 | 650+ |

LUMATEK ZEUS 1000W PRO PPFD MAPS

TEST AREA 2.0M x 1.5M

TEST POINTS 100

TEST EQUIPMENT INTEGRATING 2 METER SPHERE & LI-COR 180

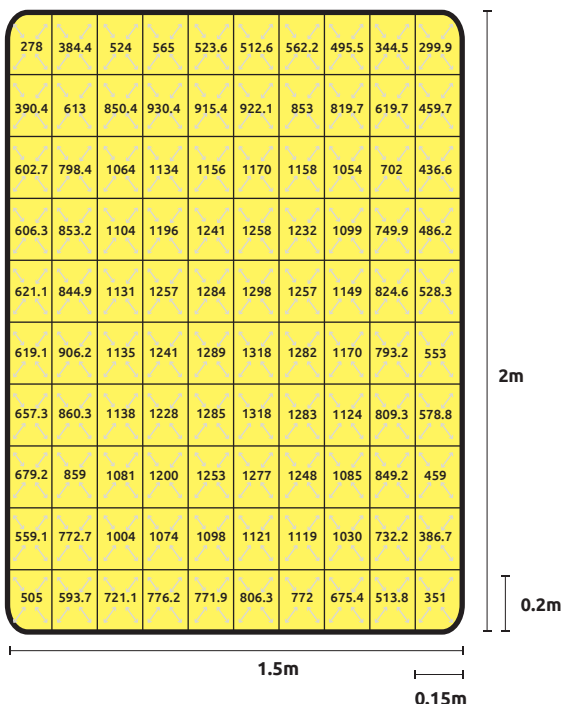
AMBIENT TEMPERATURE 25°

HEIGHT FROM CANOPY 30CM, 40CM, 50CM, 60CM, 80CM, 100CM, 120CM, 150CM

REFLECTION 0%

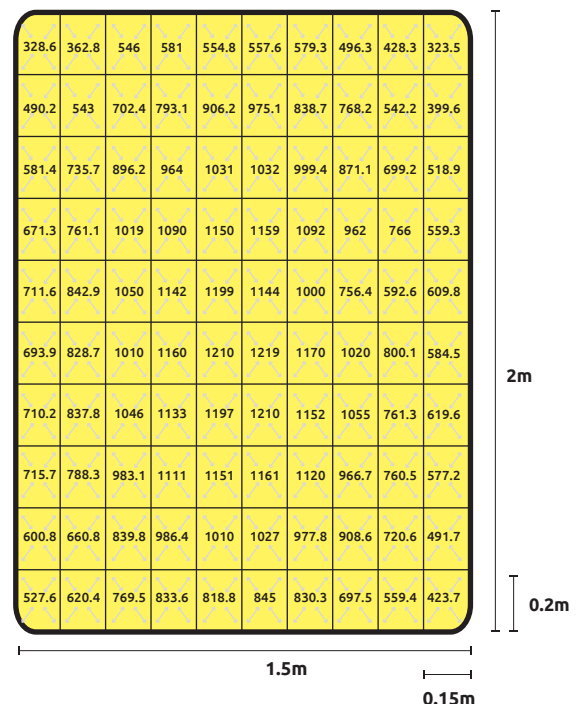
HEIGHT TO TEST POINT 30cm

CANOPY AVERAGE PPFD 871.2 $\mu\text{mol}/\text{s}/\text{m}^2$



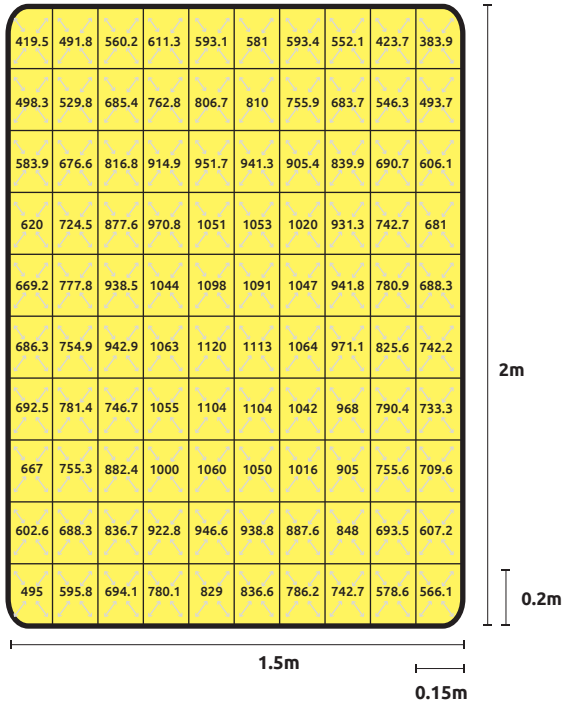
HEIGHT TO TEST POINT 40cm

CANOPY AVERAGE PPFD 822.2 $\mu\text{mol}/\text{s}/\text{m}^2$



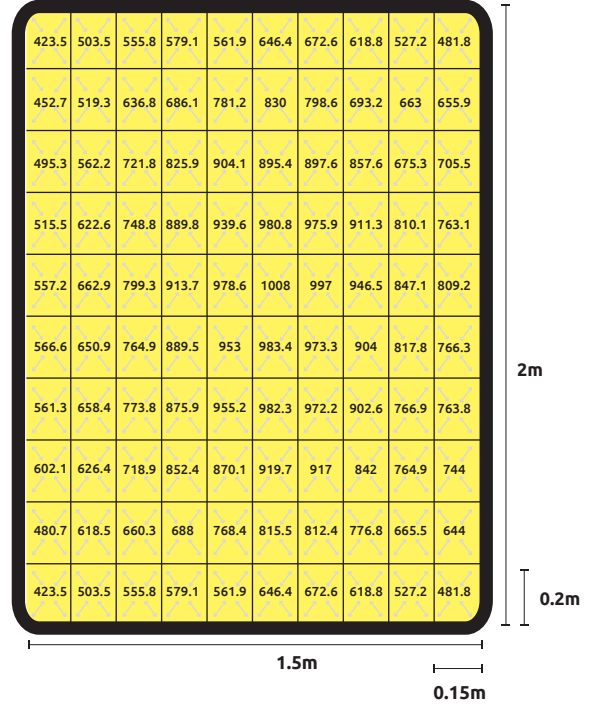
HEIGHT TO TEST POINT **50cm**

CANOPY AVERAGE **PPFD** **794.4 $\mu\text{mol/s/m}^2$**



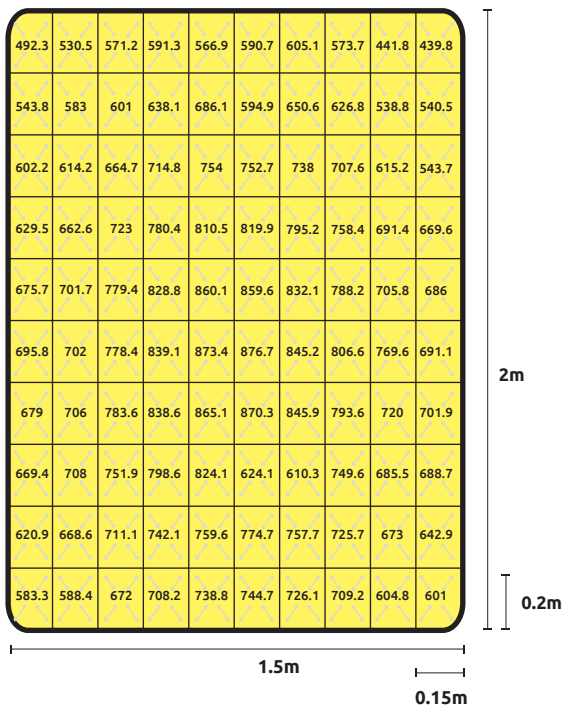
HEIGHT TO TEST POINT **60cm**

CANOPY AVERAGE **PPFD** **742.1 $\mu\text{mol/s/m}^2$**



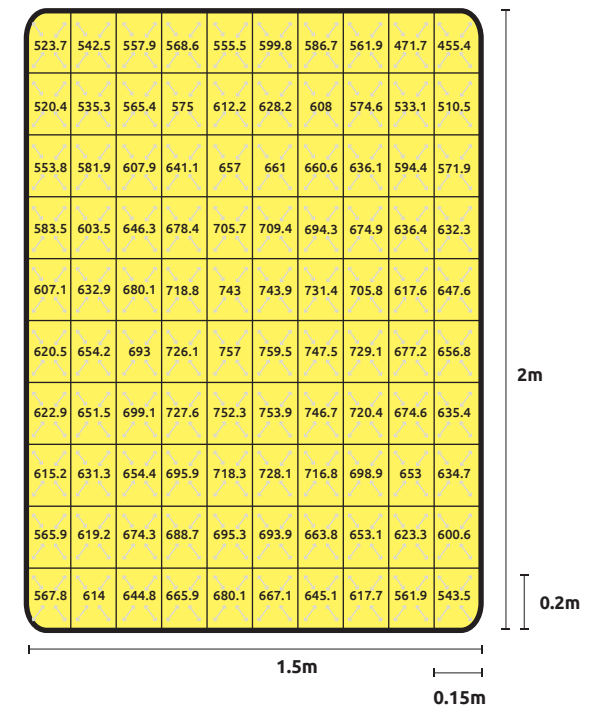
HEIGHT TO TEST POINT **80cm**

CANOPY AVERAGE **PPFD** **694.5 $\mu\text{mol/s/m}^2$**



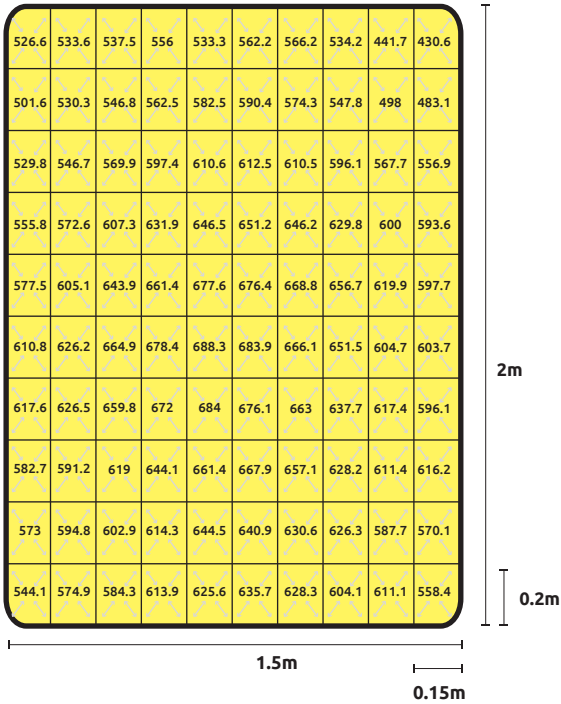
HEIGHT TO TEST POINT **100cm**

CANOPY AVERAGE **PPFD** **640.8 $\mu\text{mol/s/m}^2$**



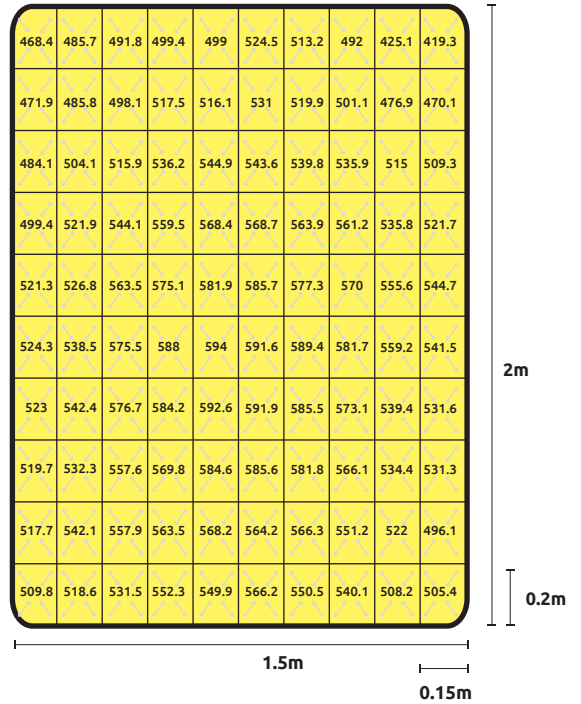
HEIGHT TO TEST POINT 120cm

CANOPY AVERAGE PPFD 602.3 $\mu\text{mol/s/m}^2$



HEIGHT TO TEST POINT 150cm

CANOPY AVERAGE PPFD 537.5 $\mu\text{mol/s/m}^2$



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